

# Introduction to Assembly Language

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# **1 Abstract**

In this lab, we implemented a 7-segment LED decoder. The 7-segment LED decoder displayed the hex value of four binary inputs. We also created a counter that incremented the value displayed on the display each second from 0 to F. Our implementation was created using VHDL and also implemented on the Zybo Z7 board such that we could see the 7-segment LED decoder in action. In this report, we will cover the lab as a whole and discuss our findings.